

ABSTRACT OF THE INVENTION

A constant current output control method and device for a switching power supply circuit for constant current output control of an output current I_{2o} of a rectifying smoothing. An OFF adjustment time T_3 is:

5 $T_3 = T_2 \times (N_p \div N_s \times I_{p\text{ref}} \div 2 \div I_{2\text{oset}} - 1) - T_1 \cdots (1)$

in which, $I_{2\text{oset}}$ represents a set output current of the rectifying smoothing circuit, N_p represents a number of turns of a primary winding, N_s represents a number of turns of a secondary winding, T_1 being a fixed time representing an ON time, $I_{p\text{ref}}$ representing a reference peak current flowing in the primary winding, and T_2 representing an output time during which output is generated from the rectifying smoothing circuit. Output current I_{2o} during an oscillation period T becomes set output current $I_{2\text{oset}}$, and constant current output control can be executed by repeating this method.